

Control device for pressure medium

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Cited documents:

US5520546
US5292260
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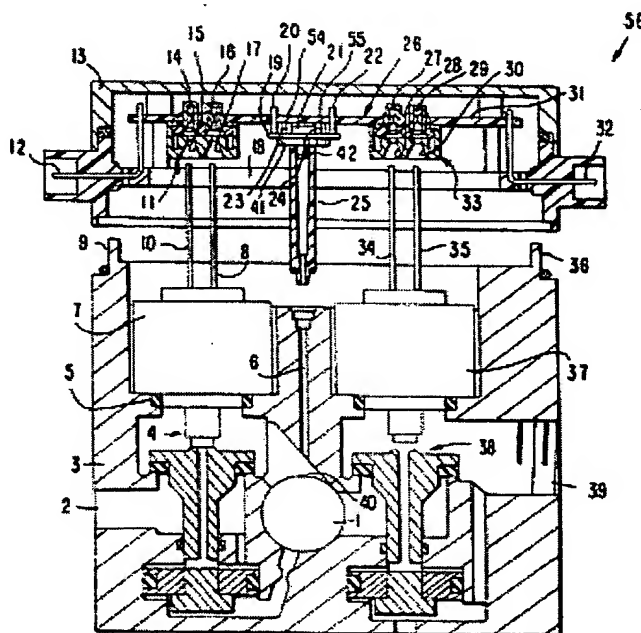
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A control device for pressurized fluids includes a valve mechanism that is actuated by a first electric device incorporating a pair of electromagnets disposed in a first housing component, and a second electric device incorporating a printed circuit board for controlling the valve mechanism disposed in a second housing component. For electrical connection of the two electric devices, male connector pins are provided on the first electric device and female connector sockets are provided on the second electric device. The male and female components automatically form a plug-type connection when the two housing components are joined together. Each female connector socket is received in a first portion of a through-hole provided in a mount supported on the circuit board such that it extends into, and preferably beyond, a corresponding through-hole in the circuit board. A second portion of each through-hole in each mount is provided with a funnel-shaped section opening toward the male connector pins which functions as an entry guide for such pins. A pressure sensor may be disposed in the second housing component such that it forms a plug-type engagement with a port extending from the valve mechanism when the first and second housing components are joined together. The pressure sensor is supported by the circuit board in the second housing component. Electrical contact elements extend from the pressure sensor into, and preferably beyond, holes in the printed circuit board.



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